
INTERNATIONAL STANDARD



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Nitrogen for use in aircraft

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2435 was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and circulated to the Member Bodies in June 1971.

It has been approved by the Member Bodies of the following countries :

Austria	India	South Africa, Rep. of
Belgium	Italy	Spain
Brazil	Japan	Thailand
Canada	Netherlands	Turkey
Czechoslovakia	New Zealand	United Kingdom
Egypt, Arab Rep. of	Romania	U.S.S.R.

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

France
U.S.A.

Nitrogen for use in aircraft

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the pressure and characteristics of nitrogen, compressed in oil-lubricated equipment, for use in aircraft. This International Standard is not intended to cover nitrogen for use in oxygen systems.

2 PRESSURE

The gaseous nitrogen supply pressure shall ensure charging of aircraft systems up to 343 bar (4 975 lbf/in²) at 20 °C.

NOTE — The working pressures of aircraft nitrogen systems currently in use are :

- 1) 207 bar (3 000 lbf/in²);
- 2) 276 bar (4 000 lbf/in²);
- 3) 343 bar (4 975 lbf/in²).

3 CHARACTERISTICS

3.1 The minimum purity of the nitrogen shall be 98,5 % by volume.

3.2 The nitrogen shall contain not more than a total of 0,005 mg of oil vapour and particulate matter per cubic decimetre (or litre) of nitrogen at 15 °C and 1 013 mbar (14.69 lbf/in²).

3.3 The water content shall not exceed 0,02 mg per cubic decimetre (or litre) of nitrogen at 15 °C and 1 013 mbar (14.69 lbf/in²).

3.4 Any particulate matter in the gas shall be capable of passing through a filter with a nominal rating of 10 µm.

NOTE — 1 bar = 100 kN/m² = 100 kPa.